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MATERIALS AND TECTONICS

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MATERIALS AND TECTONICS

INTRODUCTION

Tectonics is one of the most essential topics in architectural theory that refers various quality of architecture. It resembles the integration of structure and construction, the application of technical aspects, and the attention to detail creativity in a harmonious and systematic way that reflect the cultural and aesthetic qualities and relate to different aspects of skills, methods, materials and proportions.

With the introduction of the computer into the architectural design process, theories of architecture became more influenced by the possibilities of this tool.

1. The science or art of construction, both in relation to use and artistic design is
 - a. Tectonics
 - b. Atectonic
 - c. Stereotonic
 - d. Digital tectonics

Answer A

2. Tectonics concern is with the
 - a. Modeling of materials
 - b. Structures
 - c. Environment
 - d. Design

Answer A

3. Which of these is a principle of tectonics
 - a. Structural
 - b. Durable and rigid
 - c. Static

- d. All the above

Answer D

- 4. The word tectonics originates from the
 - a. American
 - b. Greek
 - c. British
 - d. Spanish

Answer B

- 5. Our built environment is mostly constructed using fundamental construction typologies
 - a. 1
 - b. 2
 - c. 3
 - d. 4

Answer B

- 6. A type of construction that is characterized by piled or staked mass element like stones and bricks is
 - a. Stereotonic
 - b. Filigree
 - c. Atectonic
 - d. Tectonics

Answer A

- 7. The light weight assembled structures is called
 - a. Stereotonic
 - b. Filigree
 - c. Atectonic
 - d. Tectonic

Answer B

- 8. Designing architecture without using tectonics principles or without following tectonics thinking
 - a. Stereotonic
 - b. Filigree
 - c. Atectonic

- d. Tectonic

Answer C

9. What are the three steps process for the generation of architecture derived from
- a. The plan for the building design
 - b. A roof and its support are introduced
 - c. Framing architectural space
 - d. All the above

Answer D

10. The beginning and the end of architecture is
- a. Materials
 - b. Design
 - c. Structures
 - d. Environment

Answer A

11. A well building hath what condition
- a. Firmness
 - b. Commodity
 - c. Delight
 - d. All of these

Answer D

12. In tectonics, the media of architecture is
- a. Drawing
 - b. Environment
 - c. Materials
 - d. Structures

Answer C

13. The first submission of the concept of tectonics was in the 19th century by
- a. Karl Botticher
 - b. Gottfried Semper
 - c. Edward Sekler
 - d. Kenneth Frampton

Answer A and B

14. The connotation of tectonics in architectural theory is classified in categories

- a. 1
- b. 2
- c. 3
- d. 4

Answer B

15. Which of the following is not main aspect constituting triad of tectonics

- a. Technique
- b. Culture
- c. Material
- d. Digital

Answer D

16. The new methodology of architectural design that emphasises the integration between aesthetic and technical aspect

- a. Digital tectonics
- b. Classical tectonic
- c. Tried tectonic
- d. Design tectonic

Answer A

17. Which of these is not essential factors of digital tectonics

- a. Tool
- b. Articulation
- c. Assembles
- d. Element

Answer D

18. stress on the relation between construction, materials and cultural expression

- a. Digital tectonics
- b. Classical tectonics
- c. Tried tectonics
- d. Design tectonics

Answer B

19. The term tectonics is related to the following terms in these categories except
- a. Technique
 - b. Structure
 - c. Stereotonic
 - d. Digital

Answer D

20. Responsible architect, concerned issues sustainability will include
- a. Factory and site
 - b. All weather construction
 - c. Local skills and custom
 - d. All the above

Answer D

CONCLUSION

Traditional architecture would never explain the dynamics state of digital production. This raised the need to input a new variable to tectonics to be able to generate, interpret and improve the architectural form.